

ESCALANTE RIVER BASIN

157

09337500 ESCALANTE RIVER NEAR ESCALANTE, UT

LOCATION.--Lat $37^{\circ}46'41''$, long $111^{\circ}34'26''$, in NE $_{1/4}$ NW $_{1/4}$ SE $_{1/4}$ sec. 9, T. 35 S., R. 3 E., Garfield County, Hydrologic Unit 14070005, Bureau of Land Management, on left bank 150 ft downstream from Pine Creek and 1.5 mi northeast of Escalante.

DRAINAGE AREA.--320 mi².

PERIOD OF RECORD.--August 1909 to April 1913, October 1942 to September 1955, December 1971 to current year. Published as Escalante Creek near Escalante 1909-13.

REVISED RECORDS.--WSP 1149: 1943(M), 1944, 1945(M). WDR UT-73-1: 1972.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,670 ft above sea level, from topographic map. Prior to April 30, 1913, staff at approximately same site at different datum.

REMARKS.--Records fair except for discharges less than 2.0 ft³/s and estimated daily discharges, which are poor. Considerable regulation of low flows by diversion into Wide Hollow Reservoir (an off-stream storage site about 4 mi upstream; capacity 2,320 acre-feet) and by diversion on Pine Creek for irrigation of about 2,300 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,550 ft³/s, Aug 24, 1998, gage height, 11.05 ft, from rating curve extended above 150 ft³/s on basis of slope-area measurements at gage heights, 5.31 ft, 6.25 ft, 7.59 ft, and 11.05 ft; minimum daily, 0.07 ft³/s, Jul 11, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 926 ft³/s, Aug 29, gage height, 5.25 ft; minimum daily discharge, 0.31 ft³/s, Oct 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.47	5.1	3.9	e3.0	e5.0	14	12	15	56	2.4	2.9	1.5
2	.39	3.8	4.1	e3.0	e5.0	15	11	23	49	2.4	19	1.4
3	.31	3.8	4.0	e3.0	e5.5	15	11	18	44	2.2	36	1.4
4	.35	4.6	3.9	e3.0	e7.0	14	11	16	37	2.2	12	1.4
5	.38	4.0	4.5	e3.5	e10	14	12	16	33	2.1	1.6	1.4
6	.41	3.0	4.5	e3.5	e12	16	11	14	28	2.0	1.3	1.3
7	.41	3.6	4.3	e3.5	e14	28	11	13	24	2.0	13	1.3
8	6.7	3.1	4.1	e3.0	e12	24	11	12	21	2.4	2.7	1.3
9	3.0	3.3	4.0	3.7	e8.0	26	11	19	19	3.1	3.6	1.3
10	13	3.6	4.0	4.4	e4.0	28	9.9	37	17	3.5	5.4	1.4
11	5.8	2.9	3.9	4.2	e2.5	24	9.9	49	19	6.2	4.5	1.3
12	1.6	2.5	3.7	4.3	e3.5	18	9.2	66	14	4.9	4.8	1.3
13	1.5	e2.5	4.6	4.8	e3.5	18	9.2	84	14	17	23	6.1
14	1.6	e2.0	4.8	e4.0	e4.0	22	8.9	88	14	8.9	5.7	3.0
15	1.5	e1.8	5.0	e3.0	e4.5	17	9.0	91	13	29	4.6	1.5
16	1.5	e1.5	3.9	e1.8	5.2	17	8.4	89	11	8.5	47	3.0
17	1.5	e1.5	4.0	e1.3	6.4	15	8.5	100	10	4.0	17	2.9
18	1.5	e2.0	e3.0	e1.3	8.0	18	8.9	104	8.4	3.8	3.4	1.8
19	1.7	e2.0	e2.5	e1.2	17	25	9.6	117	4.9	3.7	3.1	1.8
20	1.5	e2.0	e2.0	e1.2	18	29	10	105	4.3	3.6	2.3	1.8
21	3.1	e3.0	e2.0	e1.3	17	34	9.9	107	3.9	3.6	1.9	1.6
22	16	3.6	e2.5	e1.4	17	34	9.6	101	3.8	3.4	6.2	1.4
23	68	3.7	e3.0	e1.6	14	37	9.2	98	3.8	3.4	1.9	1.3
24	20	3.9	e3.0	e1.8	14	29	8.8	97	3.8	3.1	1.7	1.2
25	10	3.9	e3.5	e1.9	15	24	8.8	97	3.4	2.9	1.6	1.5
26	5.2	4.5	e3.5	e2.0	15	23	11	93	27	3.0	1.7	1.4
27	80	3.9	e3.5	2.2	14	22	12	89	12	3.8	1.7	1.3
28	33	3.9	e3.0	3.2	17	20	12	82	3.9	4.4	1.6	1.2
29	12	3.8	e3.0	4.9	---	19	12	76	2.8	4.4	37	1.1
30	7.6	3.7	e2.5	e4.5	---	15	12	69	2.4	4.5	4.2	1.1
31	6.0	---	e2.5	e5.5	---	14	---	62	---	3.6	1.7	---
TOTAL	306.02	96.5	110.7	91.0	278.1	668	307.8	2047	507.4	154.0	274.1	51.3
MEAN	9.87	3.22	3.57	2.94	9.93	21.5	10.3	66.0	16.9	4.97	8.84	1.71
MAX	80	5.1	5.0	5.5	18	37	12	117	56	29	47	6.1
MIN	.31	1.5	2.0	1.2	2.5	14	8.4	12	2.4	2.0	1.3	1.1
AC-FT	607	191	220	180	552	1320	611	4060	1010	305	544	102

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943-55, 1973-2001, BY WATER YEAR (WY)

MEAN	7.81	6.96	7.34	8.61	10.5	12.7	14.1	23.5	18.3	6.28	8.64	7.24
MAX	29.9	23.8	18.1	26.4	23.8	39.7	54.8	124	125	30.5	30.8	39.4
(WY)	1973	1988	1943	1950	1943	1989	1993	1973	1983	1944	1983	1998
MIN	.90	.80	.77	.96	1.21	.67	1.23	.88	.48	.47	.84	.73
(WY)	1991	1991	1991	1991	1993	1991	1990	1954	1990	1978	1978	1955

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1943-55, 1973-2001

ANNUAL TOTAL	2617.16	4891.92		
ANNUAL MEAN	7.15	13.4	11.2	
HIGHEST ANNUAL MEAN			30.7	1973
LOWEST ANNUAL MEAN			1.49	1991
HIGHEST DAILY MEAN	125	Aug 29	367	Sep 11 1998
LOWEST DAILY MEAN	.31	Oct 3	.07	Jul 11 1990
ANNUAL SEVEN-DAY MINIMUM	.39	Oct 1	.18	Aug 26 1990
ANNUAL RUNOFF (AC-FT)	5190	9700	8080	
10 PERCENT EXCEEDS	19	31	24	
50 PERCENT EXCEEDS	3.2	4.5	5.0	
90 PERCENT EXCEEDS	.53	1.5	1.1	

e Estimated